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PROCEEDINGS OF THE SEVENTY-SEVENTH ANNUAL MEETING OF THE AMERICAN STATISTICAL ASSOCIATION, WASHINGTON, D. C., DECEMBER 28-30, 1915.

The seventy-seventh annual meeting of the American Statistical Association was held at Washington, D. C., December 28-30, 1915. The following program was carried out:

PROGRAM.

TUESDAY, DECEMBER 28.

8.00 p. m. *First Session, Large Banquet Hall, Hotel Raleigh.*

Joint Meeting with the American Sociological Society.

Presidential addresses:

E. Dana Durand, President of the American Statistical Association,
"The Emergence of Unearned Increment."

Edward A. Ross, President of the American Sociological Society,
"War as Determiner."

WEDNESDAY, DECEMBER 29.

10.00 a. m. *Second Session, Hotel Shoreham.*

Joint Meeting with the American Political Science Association; general topic, *Standardization and Government Efficiency*; presiding officer, Morris Llewellyn Cooke, Director, Department of Public Works, Philadelphia.

1. Standardization in Statistical Presentation, Roland P. Falkner, Alexander Hamilton Institute.

Discussion: Leonard P. Ayres, Russell Sage Foundation, Julius H. Parmelee, Bureau of Railway Economics, Washington, Charles H. Verrill, U. S. Bureau of Labor Statistics.

2. The Meaning of Standardization, J. Russell Smith, University of Pennsylvania.

3. Standardization of Grades and Salaries in Civil Service, Robert S. Moses, Bureau of Municipal Research, New York.

Discussion: Henry Bruère, Chamberlain, New York City, J. A. Dunaway, University of Pennsylvania.

2.30 p. m. *Third Session, Small Banquet Room, Hotel Raleigh.*

1. Statistics of Imports and Exports, Frank Roy Rutter, Bureau of Foreign and Domestic Commerce.

Discussion: N. I. Stone, Brooklyn, N. Y., Henry C. Emery, New Haven, Conn., Martin J. Shugrue, Boston, Mass.

2. Standards for Graphic Forms of Presentation. Discussion of the Preliminary Report of the Joint Committee on this subject representing various national scientific associations including the American Statistical Association.
Discussion to be opened by Leonard P. Ayres, Russell Sage Foundation, Secretary of the Committee.
3. Agricultural Element in the Population, Eugene Merritt, U. S. Department of Agriculture.
4. Statistics of the Food Supply in Germany, Robert M. Woodbury, Cornell University.
5. Longevity of Presidents and Members of Congress, Irving Fisher, Yale University.
6. Business Session.

THURSDAY, DECEMBER 30.

Joint Meeting, by invitation, with Subsection B, Section VIII, of the Pan American Scientific Congress.

10.00 a. m. Fourth Session, Oak Room, Hotel Raleigh.

1. The Nature and Significance of the Changes in the Birth and Death Rates in Recent Years, Walter F. Willcox, Cornell University.
2. The Influence of Vital Statistics upon the Conservation of Human Life, W. S. Rankin, Secretary of State Board of Health, North Carolina.
3. The Relation of Sickness Reports to Health Administration, John W. Trask, Assistant Surgeon General, U. S. Public Health Service.
4. Vital Statistics in Relation to Life Insurance, Louis I. Dublin, Statistician, Metropolitan Life Insurance Company.
5. Statistics of Infant Mortality, Lewis Meriam, Bureau of Municipal Research, New York City.

2.30 p. m. Fifth Session, Oak Room, Hotel Raleigh.

1. The Federal Registration Service of the United States: Its Development, Problems, and Defects, Cressy L. Wilbur, Director, Division of Vital Statistics, New York State Department of Health.
2. Vital Statistics in the States and Cities of the United States, Wilmer R. Batt, State Registrar of Vital Statistics, Pennsylvania, Charles V. Chapin, Superintendent of Public Health, Rhode Island, William H. Guilfooy, Registrar of Records, New York City.
3. Informe sobre el desarrollo de la estadística demográfica de El Salvador, Dr. Pedro S. Fonseca, of Salvador.
4. The Accuracy and Completeness of Compiled Vital Statistics in the United States, John S. Fulton, Secretary of State Board of Health, Maryland.

MINUTES OF THE BUSINESS MEETING.

Meeting called to order by President Durand at 6 p. m.

The reading of the minutes of the previous annual meeting was dispensed with as they had already been published in the proceedings.

The Secretary presented the following report:

SECRETARY'S REPORT.

Mr. President and Members of the Association:

I have the following to report in regard to the condition of the Association:

Membership December 30, 1914, date of last annual meeting	681
New members added	75
Deaths during the year	12
Resignations	22
Dropped	39
Total deductions	73
Present membership	683
Net gain	2
Beside members we have:	
Subscribers (mostly libraries)	205
Domestic Exchanges	38
Foreign Exchanges	117
Total mailing list	1,043

The death of the following members has been reported during the year: Honorary Member; Professor Ivan Ianschul; Fellow, Edward Bunnell Phelps; Members, Nelson W. Aldrich, Walter F. Allen, A. C. Dale, C. R. Henderson, Oscar B. Ireland, Thomas Lawless, Arthur T. Lyman, George E. Millichamp, Peter White, Stuart Wood.

Four regular numbers of the QUARTERLY PUBLICATIONS have been issued during the year, containing an aggregate of 481 pages, or an average of 120 pages, per number. Volume XIV, which is completed with the December number of the

present year, contains 831 pages, or an average of 104 pages per number. This is the largest volume the Association has ever issued.

Four meetings of the Association have been held during the past year; one of these was the special meeting held in San Francisco in connection with the Panama Pacific International Exposition, August 11-13. The other three meetings were what we formerly called quarterly meetings; two of these were held in New York City, on April 15 and December 3, respectively; the third one was held in Washington, D. C., April 17. These meetings took the form of a dinner, followed by round-table discussion. The average attendance was about 40.

Respectfully submitted,

CARROLL W. DOTEN,

Secretary.

On motion, it was voted to accept the report of the Secretary and to authorize its publication in the proceedings in the March number of the QUARTERLY PUBLICATIONS.

TREASURER'S REPORT.

December 22, 1914, to December 23, 1915.

RECEIPTS.

Membership dues	\$1,242.32	
Sales and subscriptions.....	1,369.28	
Dividends and interest	143.73	
Balance on hand, December 22, 1914...	741.30	
		\$3,496.63

EXPENDITURES.

Printing	\$2,111.33	
Postage.....	129.45	
Salaries and clerical service	401.28	
Expenses.....	13.10	
		\$2,655.16
Balance on hand, December 23, 1915...	841.47	
		\$3,496.63

ASSETS.

17 shares B. & A. R. R. stock @ 189 per share, \$3,213.00.

S. B. PEARMAIN,
Treasurer.

AUDITORS' REPORT.

We have audited the accounts of the treasurer of the American Statistical Association, for the year ending December 23, 1915, and counted the securities in his possession. We find the accounts accurately stated and the expenditures properly vouched.

Respectfully submitted,
LEROY D. PEAVEY,
MARTIN J. SHUGRUE,
Auditing Committee.

SEVENTY-FIFTH ANNIVERSARY FUND.

To December 28, 1915.

RECEIPTS.

Cash on hand Jan. 1, 1915	\$678.88	
Interest on bank deposit	8.98	
		\$687.86

EXPENDITURES.

Feb. 5. Paid John Koren	\$67.00
Oct. 9. Paid Rumford Printing Co. ..	200.00
Nov. 19. Paid John Koren	251.50
Balance on hand December 28, 1915 ..	169.36
	\$687.86

S. B. PEARMAIN,
Treasurer.

AUDITORS' REPORT.

We have audited the Anniversary Fund accounts of the treasurer of the American Statistical Association for the year ending December 28, 1915, and find the statements correct and the expenditures properly vouched.

Respectfully submitted,
LEROY D. PEAVEY,
MARTIN J. SHUGRUE,
Auditing Committee.

On motion, duly made and seconded, it was voted to accept the reports of the treasurer and the auditors, and to publish the same in the proceedings of the meeting.

It was moved and carried that a statement of the Anniversary Fund, held by the treasurer, be printed in the proceedings of the meeting.

The report of the Committee on Library was presented by Edmund E. Day. It was moved and carried that the Committee on Library be instructed to make a thorough investigation of the status of the relation between the library of this Association and the Boston Public Library and to report its findings and recommendations at the next annual meeting of the Association.

Julius H. Parmelee presented the report of the Committee on Constitution and By-Laws. The report was accepted, and after some discussion of the separate articles the following Constitution and By-Laws were adopted by unanimous vote:

CONSTITUTION.

ARTICLE I. This Association shall be denominated the AMERICAN STATISTICAL ASSOCIATION.

ART. II. The objects of the Association shall be to collect, preserve, and diffuse statistical information in the different departments of human knowledge.

ART. III. The membership of the Association shall consist of regular members, fellows, and honorary members.

ART. IV. Regular members shall be persons interested in statistics, elected by vote of the Board of Directors, on nomination by one or more members.

ART. V. Fellows shall be statisticians of established reputation, elected by unanimous vote of the Committee on Fellows, provided for in Article VI, who shall canvass the field at least once a year and announce elections, if any, at the annual meeting of the Association. Fellows shall have all the privileges of regular members, including the right to hold office and to vote. The number of fellows shall not at any time exceed one hundred.

ART. VI. The Committee on Fellows shall consist of five fellows, and shall be appointed by the President. The first

appointment under this article shall be made within three months after the adoption of this Constitution, and in the order determined by the President shall be for one, two, three, four, and five years, respectively. Subsequent appointments shall be made by the President at the annual meeting of the Association and for terms of five years each, but no member of the Committee may serve two terms in immediate succession.

ART. VII. Persons distinguished in the field of statistics or of public service may be elected to honorary membership by unanimous vote of the Board of Directors. Honorary members shall be entitled to all the privileges of regular members of the Association, except that they may not hold office or vote.

ART. VIII. The officers of the Association shall be a President, three Vice-Presidents, a Secretary, a Treasurer, a Librarian, an Editor, and three Counsellors. These officers shall be elected every year, beginning with the first annual meeting succeeding the adoption of this Constitution, in the manner prescribed by Article IX and shall take office at the close of the annual meeting at which elected. The President, Vice-Presidents, Secretary, Treasurer, and Counsellors shall form a Board of Directors for the government of the Association, three of whom shall constitute a quorum at any meeting regularly convened.

ART. IX. The President, Vice-Presidents, Secretary, Treasurer, Librarian, Editor, and Counsellors shall be elected in the following manner: A nominating committee of three members shall be appointed by the President, the personnel of which shall be announced in the Quarterly Publications of the Association at least three months before the annual meeting. It shall be the duty of the nominating committee to make nominations for officers to be elected at the annual meeting, and to notify the regular members and fellows by mail of its nominations at least thirty days before the annual meeting. Twelve or more regular members or fellows may make nominations for any office by submitting signed petitions to the nominating committee at any time after the appointment of the committee and up to the time of the annual meeting, but this shall not prevent the committee from making additional nominations for the same office.

If no nominations by petitions are submitted for any office, the nominee of the nominating committee may be elected at the annual meeting by *viva voce* vote. If there are additional nominations by petition for one or more offices, it shall be the duty of the nominating committee to announce such nominations, the election for such office or offices shall be by ballot, and the President shall appoint three judges of election who shall count the ballots, shall decide any question that may arise as to the validity of any ballot, and shall declare the results of the election. The candidate for President, or for Secretary, or for Treasurer, or for Librarian, or for Editor, receiving a plurality shall be declared elected, while the three candidates for Vice-President and the three candidates for Counsellors receiving the highest number of votes shall be declared elected.

ART. X. Annual and occasional meetings shall be held at such times and places as the Board of Directors may designate. Any vacancy in office resulting from death, resignation, or other cause shall be filled by election at the next meeting of the Association.

ART. XI. Amendments to this Constitution may be proposed by any member of the Association at the annual meeting, and if supported by at least one third of the members present and voting shall be submitted to the next annual meeting, where a two thirds vote of all members present and voting shall be required for adoption.

BY-LAWS.

1. At least once every two years the Secretary, acting in behalf of the Association, shall publish the Constitution and By-Laws and a list of members, and shall supply a copy to each member.

2. Each regular member shall pay annual dues of two dollars, or twenty dollars at some one time, and each fellow shall pay annual dues of five dollars, or fifty dollars at some one time.

3. The Board of Directors, as soon as practicable after their election, shall appoint two standing committees of three members each, namely, on Finance and on the Library; Five standing committees of five members each, namely on Federal

Statistics, State Statistics, Municipal Statistics, Business Statistics, and International Statistics. These committees shall serve for one year, or until their successors are appointed.

4. The Board of Directors, as soon as practicable after their election, shall appoint four associate editors, to serve with the Editor as a committee on publications, and to edit the publications of the Association. The associate editors shall serve for one year, or until their successors are appointed.

5. The Board of Directors, as soon as practicable after their election, shall appoint two assistant secretaries, who shall serve for one year, or until their successors are appointed.

6. Amendments to these By-Laws may be proposed at any annual meeting of the Association and if approved by a two thirds vote shall be declared adopted.

The Nominating Committee, consisting of Irving Fisher, Wesley C. Mitchell, and Frank R. Rutter, reported the following nominations for office in the Association during the ensuing year: President, Charles P. Neill; Vice-Presidents, Charles F. Gettemy, Joseph A. Hill, Charles H. Verrill; Librarian, Horace G. Wadlin; Treasurer, S. B. Pearmain; Secretary, Carroll W. Doten; Counsellors, John Koren, E. Dana Durand, Allyn A. Young; Editor, William B. Bailey.

On motion the report of the Nominating Committee was accepted, and it was voted to instruct the secretary to cast one ballot for the list as presented. This having been done, they were duly declared elected.

Meeting adjourned.

CARROLL W. DOTEN,
Secretary.

MEETING OF THE BOARD OF DIRECTORS.

A meeting of the Board of Directors was held Thursday evening, December 30, and the following appointments were made in accordance with the provisions of the new Constitution and By-Laws of the Association.

Assistant Secretaries—Robert E. Chaddock, New York, N. Y., and Henry J. Harris, Washington, D. C.

Associate Editors—Louis I. Dublin, Julius H. Parmelee, Carl J. West, and John Cummings.

Committee on Finance—Harvey S. Chase, chairman, Walter E. Weyl, and S. B. Pearmain.

Committee on Library—Roger W. Babson, chairman, Edmund E. Day, and Henry J. Harris.

Committee on Federal Statistics—John Koren, chairman, Thomas S. Adams, Leonard W. Hatch, Frederick L. Hoffman, and N. I. Stone.

Committee on State Statistics—E. Dana Durand, chairman, Robert E. Chaddock, Charles F. Gettemy, Henry J. Harris, and E. W. Kemmerer.

Committee on Municipal Statistics—LeGrand Powers, chairman, Frederick A. Cleveland, Fred C. Croxton, Louis I. Dublin, and Edward M. Hartwell.

Committee on Business Statistics—W. S. Gifford, chairman, Melvin T. Copeland, Julius H. Parmelee, H. S. Person, and I. M. Rubinow.

Committee on International Statistics—Royal Meeker, chairman, Roger W. Babson, Miles M. Dawson, Irving Fisher, and Wesley C. Mitchell.

Auditing Committee—Martin J. Shugrue and Ernest H. Gaunt.

CARROLL W. DOTEN,
Secretary.